(19) World Intellectual Property Organization





(10) International Publication Number WO 2005/050564 A3

(51) International Patent Classification:

G06T 7/20 (2006.01) H04N 7/26 (2006.01) H04N 7/36 (2006.01) H04N 5/14 (2006.01)

(21) International Application Number:

PCT/IB2004/003677

(22) International Filing Date:

4 November 2004 (04.1 1.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

03300223.9

24 November 2003 (24.11.2003)

(71) Applicant (for all designated States except US): KONIN-KLUKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

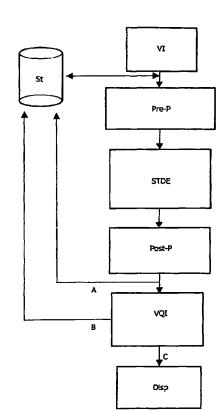
(75) Inventor/Applicant (for US only): JASINSCHI, Radu

Serban [US/FR]; Societe Civile SPID, 156 Boulevard Haussmann, F-75008 PARIS (FR).

- (74) Agent: VAN OUDHEUSDEN-PERSET, Laure; Societe Civile SPID, 156 Boulevard Haussmann, F-75008 PARIS
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

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(54) Title: DETECTION OF LOCAL VISUAL SPACE-TIME DETAILS IN A VIDEO SIGNAL



(57) Abstract: The invention relates to video signal processing such as for TV or DVD signals. Methods and systems for detection and segmentation of local visual space-time details in video signals are described. Furthermore, a video signal encoder is described. The method described comprises the steps of dividing an image into blocks of pixels, calculating space-time feature(s) within each block, calculating statistical parameter(s) for each space-time feature(s), and detecting blocks wherein the statistical parameter(s) exceeds a predetermined level. Preferably, visual normal flow is used as a local space-time feature. In addition, visual normal acceleration may be used as space-time features. In preferred embodiments visual artefacts, such as blockiness, occurring by MPEG or H.26x encoding can be reduced by allocating a larger amount of bits to local image parts exhibiting a large amount of space-time details.

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FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

 as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))

Published:

with international search report

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 20 April 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.